

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): A white color organic electroluminescence device comprising:

a cathode;

an anode; and

one or more organic thin film layers sandwiched between the cathode and the anode;

wherein:

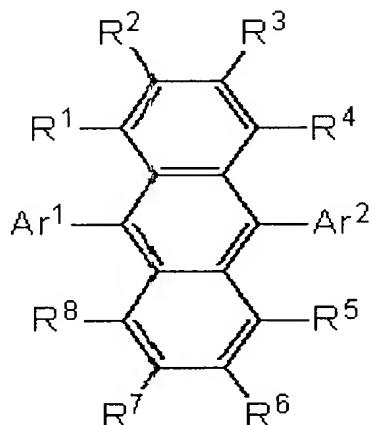
the one or more organic thin film layers comprise at least one light emitting layer;

the at least one light emitting layer comprises a laminate comprising a bluish color light emitting layer and a yellow-to-reddish color light emitting layer;

the at least one light emitting layer comprises an asymmetric compound comprising a condensed ring;

the asymmetric compound comprising a condensed ring comprises a compound according to formulae (I) to (IX) below:

formula (I):



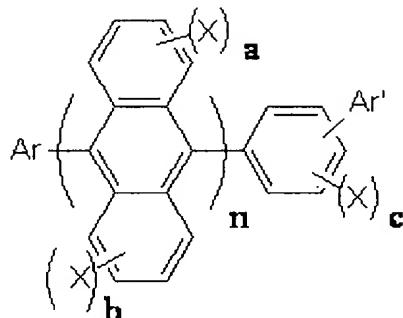
(I)

wherein:

Ar¹ and Ar² each independently represent a substituted or unsubstituted aryl group having 6 to 50 nuclear carbon atoms; phenyl group, 1-naphthyl group, 2-naphthyl group, 1-anthryl group, 2-anthryl group, 9-anthryl group, 1-phenanthryl group, 2-phenanthryl group, 3-phenanthryl group, 4-phenanthryl group, 9-phenanthryl group, 1-naphthacenyl group, 2-naphthacenyl group, 9-naphthacenyl group, 1-pyrenyl group, 2-pyrenyl group, 4-pyrenyl group, 2-biphenyl group, 3-biphenyl group, 4-biphenyl group, p-terphenyl-4-yl group, p-terphenyl-3-yl group, p-terphenyl-2-yl group, m-terphenyl-4-yl group, m-terphenyl-3-yl group, m-terphenyl-2-yl group, o-tolyl group, m-tolyl group, p-tolyl group, p-t-butylphenyl group, p-(2-phenylpropyl)phenyl group, 3-methyl-2-naphthyl group, 4-methyl-1-naphthyl group, 4-methyl-1-anthryl group, 4'-methylbiphenyl group, or 4"-t-butyl-p-terphenyl-4-yl group, provided that Ar¹ and Ar² do not have the same structure, wherein when Ar¹ and/or Ar² is substituted by a substituent, the substituent is independently at least one selected from the group consisting of a halogen atom, a hydroxyl group, a nitro group, a cyano group, an alkyl group, an aryl group, a cycloalkyl group, an alkoxy group, an aromatic heterocyclic group, an aralkyl group, an aryloxy group, an arylthio group, an alkoxy carbonyl group, a carboxyl group, and combinations thereof; and

R¹ to R⁸ each independently represent a hydrogen atom, a substituted or unsubstituted aryl group having 6 to 50 nuclear carbon atoms, a substituted or unsubstituted aromatic heterocyclic group having 5 to 50 nuclear atoms, a substituted or unsubstituted alkyl group having 1 to 50 carbon atoms, a substituted or unsubstituted alkoxy group having 1 to 50 carbon atoms, a substituted or unsubstituted aralkyl group having 6 to 50 carbon atoms, a substituted or unsubstituted aryloxy group having 5 to 50 nuclear atoms, a substituted or unsubstituted arylthio group having 5 to 50 nuclear atoms, a substituted or unsubstituted alkoxy carbonyl group having 1 to 50 carbon atoms, a carboxyl group, a halogen atom, a cyano group, a nitro group, or a hydroxyl group;

formula (II):



(II)

wherein:

Ar represents a substituted or unsubstituted fused aromatic ring residue having 10 to 50 nuclear carbon atoms 1-naphthyl group, 2-naphthyl group, 1-phenanthryl group, 2-phenanthryl group, 3-phenanthryl group, 4-phenanthryl group, 9-phenanthryl group, 1-naphthacenyl group, 2-naphthacenyl group, 9-naphthacenyl group, 1-pyrenyl group, 2-pyrenyl group, 4-pyrenyl group, 3-methyl-2-naphthyl group, 4-methyl-1-naphthyl group, or 4-methyl-1-anthryl group;

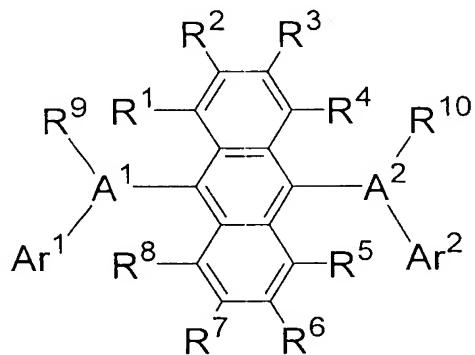
Ar' represents hydrogen or a substituted or unsubstituted aryl group having 6 to 50 nuclear carbon atoms;

X represents a substituted or unsubstituted aryl group having 6 to 50 nuclear carbon atoms, a substituted or unsubstituted aromatic heterocyclic group having 5 to 50 nuclear atoms, a substituted or unsubstituted alkyl group having 1 to 50 carbon atoms, a substituted or unsubstituted alkoxy group having 1 to 50 carbon atoms, a substituted or unsubstituted aralkyl group having 6 to 50 carbon atoms, a substituted or unsubstituted aryloxy group having 5 to 50 nuclear atoms, a substituted or unsubstituted arylthio group having 5 to 50 nuclear atoms, a substituted or unsubstituted alkoxy carbonyl group having 1 to 50 carbon atoms, a carboxyl group, a halogen atom, a cyano group, a nitro group, or a hydroxyl group;

a, b, and c each represent an integer of 0 to 4, and n represents an integer of 1 to 3; and

when Ar, Ar' and/or X is substituted by a substituent, the substituent is independently at least one selected from the group consisting of a halogen atom, a hydroxyl group, a nitro group, a cyano group, an alkyl group, an aryl group, a cycloalkyl group, an alkoxy group, an aromatic heterocyclic group, an aralkyl group, an aryloxy group, an arythio group, an alkoxycarbonyl group, a carboxyl group, and combinations thereof;

formula (III):



(III)

wherein:

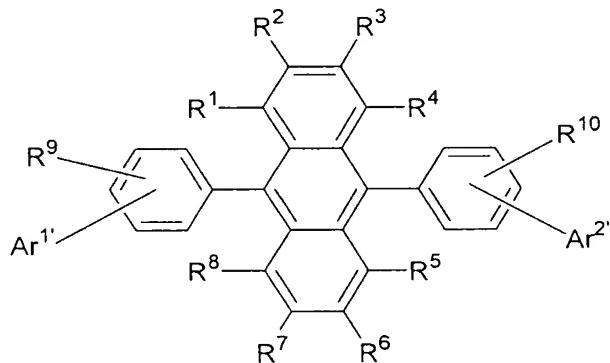
A¹ and A² each independently represent a substituted or unsubstituted fused aromatic ring residue having 10 to 20 nuclear carbon atoms;

Ar¹ and Ar² each independently represent a hydrogen atom, or a substituted or unsubstituted aryl group having 6 to 50 nuclear carbon atoms; and

R¹ to R¹⁰ each independently represent a hydrogen atom, a substituted or unsubstituted aryl group having 6 to 50 nuclear carbon atoms, a substituted or unsubstituted aromatic heterocyclic group having 5 to 50 nuclear atoms, a substituted or unsubstituted alkyl group having 1 to 50 carbon atoms, a substituted or unsubstituted alkoxy group having 1 to 50 carbon atoms, a substituted or unsubstituted aralkyl group having 6 to 50 carbon atoms, a

substituted or unsubstituted aryloxy group having 5 to 50 nuclear atoms, a substituted or unsubstituted arylthio group having 5 to 50 nuclear atoms, a substituted or unsubstituted alkoxycarbonyl group having 1 to 50 carbon atoms, a carboxyl group, a halogen atom, a cyano group, a nitro group, or a hydroxyl group, provided that no symmetrical group binds to each of 9-position and 10-position of central anthracene;

formula (IV):



(IV)

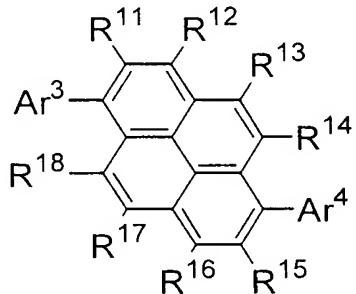
wherein:

Ar¹' and Ar²' each independently represent a substituted or unsubstituted aryl group having 6 to 50 nuclear carbon atoms; and

R¹ to R¹⁰ each independently represent a hydrogen atom, a substituted or unsubstituted aryl group having 6 to 50 nuclear carbon atoms, a substituted or unsubstituted aromatic heterocyclic group having 5 to 50 nuclear atoms, a substituted or unsubstituted alkyl group having 1 to 50 carbon atoms, a substituted or unsubstituted alkoxy group having 1 to 50 carbon atoms, a substituted or unsubstituted aralkyl group having 6 to 50 carbon atoms, a substituted or unsubstituted aryloxy group having 5 to 50 nuclear atoms, a substituted or unsubstituted arylthio group having 5 to 50 nuclear atoms, a substituted or unsubstituted alkoxycarbonyl group having 1 to 50 carbon atoms, a carboxyl group, a halogen atom, a cyano group, a nitro group, or a hydroxyl group, provided that no symmetrical group binds to each of 9-position and 10-position of central anthracene;

cyano group, a nitro group, or a hydroxyl group, provided that no symmetrical group binds to each of 9-position and 10-position of central anthracene;

formula (V):



(V)

wherein:

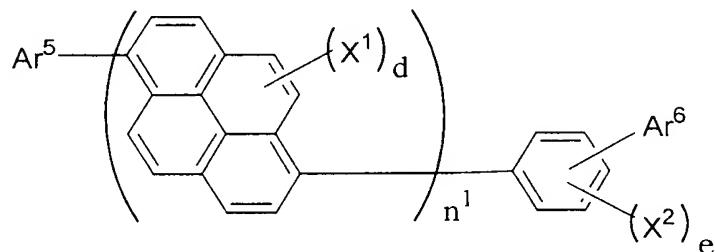
Ar³ and Ar⁴ each independently represent a substituted or unsubstituted-aryl group having 6 to 50 nuclear carbon atoms phenyl group, 1-naphthyl group, 2-naphthyl group, 1-anthryl group, 2-anthryl group, 9-anthryl group, 1-phenanthryl group, 2-phenanthryl group, 3-phenanthryl group, 4-phenanthryl group, 9-phenanthryl group, 1-naphthacenyl group, 2-naphthacenyl group, 9-naphthacenyl group, 1-pyrenyl group, 2-pyrenyl group, 4-pyrenyl group, 2-biphenyl group, 3-biphenyl group, 4-biphenyl group, p-terphenyl-4-yl group, p-terphenyl-3-yl group, p-terphenyl-2-yl group, m-terphenyl-4-yl group, m-terphenyl-3-yl group, m-terphenyl-2-yl group, o-tolyl group, m-tolyl group, p-tolyl group, p-t-butylphenyl group, p-(2-phenylpropyl)phenyl group, 3-methyl-2-naphthyl group, 4-methyl-1-naphthyl group, 4-methyl-1-anthryl group, 4'-methylbiphenyl group, or 4"-t-butyl-p-terphenyl-4-yl group, provided that Ar³ and Ar⁴ do not have the same structure;

when Ar³ and/or Ar⁴ is substituted by a substituent, the substituent is independently at least one selected from the group consisting of a halogen atom, a hydroxyl group, a nitro group, a cyano group, an alkyl group, a cycloalkyl group, an alkoxy group, an

aromatic heterocyclic group, an aralkyl group, an aryloxy group, an arythio group, an alkoxycarbonyl group, a carboxyl group, and combinations thereof; and

R^{11} to R^{18} each independently represent a hydrogen atom, a substituted or unsubstituted aryl group having 6 to 50 nuclear carbon atoms, a substituted or unsubstituted aromatic heterocyclic group having 5 to 50 nuclear atoms, a substituted or unsubstituted alkyl group having 1 to 50 carbon atoms, a substituted or unsubstituted alkoxy group having 1 to 50 carbon atoms, a substituted or unsubstituted aralkyl group having 6 to 50 carbon atoms, a substituted or unsubstituted aryloxy group having 5 to 50 nuclear atoms, a substituted or unsubstituted arylthio group having 5 to 50 nuclear atoms, a substituted or unsubstituted alkoxycarbonyl group having 1 to 50 carbon atoms, a carboxyl group, a halogen atom, a cyano group, a nitro group, or a hydroxyl group;

formula (VI):



(VI)

wherein:

Ar^5 represents a substituted or unsubstituted fused aromatic ring residue ~~having 10 to 50 nuclear carbon atoms~~ 1-naphthyl group, 2-naphthyl group, 1-anthryl group, 2-anthryl group, 9-anthryl group, 1-phenanthryl group, 2-phenanthryl group, 3-phenanthryl group, 4-phenanthryl group, 9-phenanthryl group, 1-naphthacenyl group, 2-naphthacenyl group, 9-naphthacenyl group, 3-methyl-2-naphthyl group, 4-methyl-1-naphthyl group, or 4-methyl-1-anthryl group;

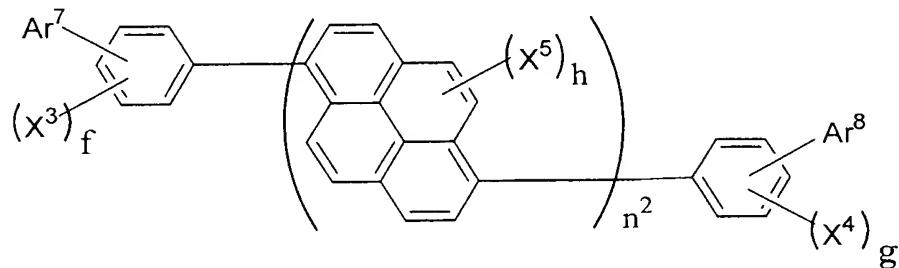
Ar^6 represents a substituted or unsubstituted aryl group having 6 to 50 nuclear carbon atoms;

X^1 and X^2 each independently represent a substituted or unsubstituted aryl group having 6 to 50 nuclear carbon atoms, a substituted or unsubstituted aromatic heterocyclic group having 5 to 50 nuclear atoms, a substituted or unsubstituted alkyl group having 1 to 50 carbon atoms, a substituted or unsubstituted alkoxy group having 1 to 50 carbon atoms, a substituted or unsubstituted aralkyl group having 6 to 50 carbon atoms, a substituted or unsubstituted aryloxy group having 5 to 50 nuclear atoms, a substituted or unsubstituted arylthio group having 5 to 50 nuclear atoms, a substituted or unsubstituted alkoxy carbonyl group having 1 to 50 carbon atoms, a carboxyl group, a halogen atom, a cyano group, a nitro group, or a hydroxyl group;

when Ar^5 , Ar^6 and/or X^2 is substituted by a substituent, the substituent is independently at least one selected from the group consisting of a halogen atom, a hydroxyl group, a nitro group, a cyano group, an alkyl group, a cycloalkyl group, an alkoxy group, an aromatic heterocyclic group, an aralkyl group, an aryloxy group, an arythio group, an alkoxy carbonyl group, a carboxyl group, and combinations thereof; and

d represents an integer of 0 to 8, e represents an integer of 0 to 4, and n^1 represents an integer of 1 to 3;

formula (VII):



(VII)

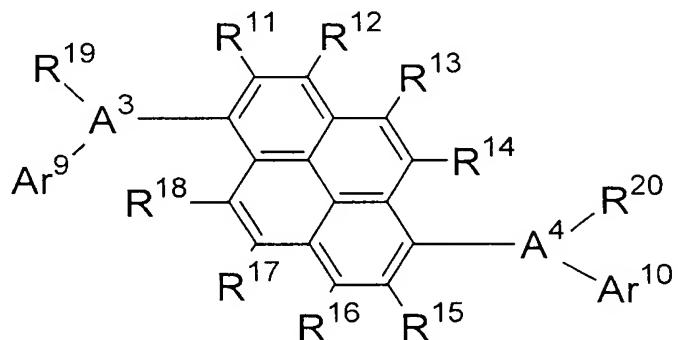
wherein:

Ar^7 and Ar^8 each independently represent a substituted or unsubstituted aryl group having 6 to 50 nuclear carbon atoms;

X^3 , X^4 , and X^5 each independently represent a substituted or unsubstituted aryl group having 6 to 50 nuclear carbon atoms, a substituted or unsubstituted aromatic heterocyclic group having 5 to 50 nuclear atoms, a substituted or unsubstituted alkyl group having 1 to 50 carbon atoms, a substituted or unsubstituted alkoxy group having 1 to 50 carbon atoms, a substituted or unsubstituted aralkyl group having 6 to 50 carbon atoms, a substituted or unsubstituted aryloxy group having 5 to 50 nuclear atoms, a substituted or unsubstituted arylthio group having 5 to 50 nuclear atoms, a substituted or unsubstituted alkoxy carbonyl group having 1 to 50 carbon atoms, a carboxyl group, a halogen atom, a cyano group, a nitro group, or a hydroxyl group; and

f and g each represent an integer of 0 to 4, h represents an integer of 0 to 8, and n^2 represents an integer of 1 to 3, provided that no symmetrical group binds to each of 1-position and 6-position of central pyrene;

formula (VIII):



(VIII)

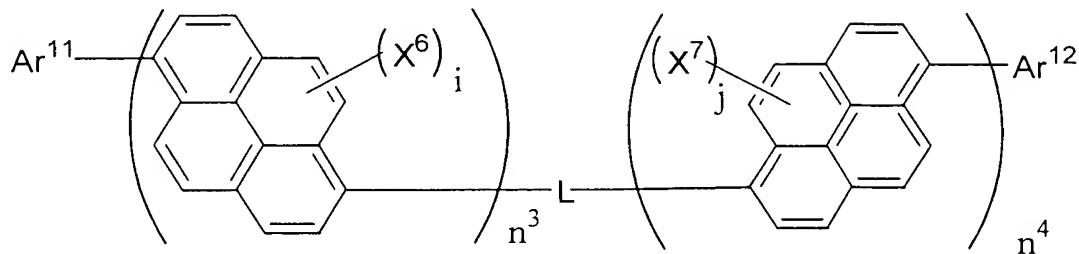
wherein:

A^3 and A^4 each independently represent a substituted or unsubstituted fused aromatic ring residue having 10 to 20 nuclear carbon atoms;

Ar⁹ and Ar¹⁰ each independently represent a hydrogen atom, or a substituted or unsubstituted aryl group having 6 to 50 nuclear carbon atoms; and

R¹¹ to R²⁰ each independently represent a hydrogen atom, a substituted or unsubstituted aryl group having 6 to 50 nuclear carbon atoms, a substituted or unsubstituted aromatic heterocyclic group having 5 to 50 nuclear atoms, a substituted or unsubstituted alkyl group having 1 to 50 carbon atoms, a substituted or unsubstituted alkoxy group having 1 to 50 carbon atoms, a substituted or unsubstituted aralkyl group having 6 to 50 carbon atoms, a substituted or unsubstituted aryloxy group having 5 to 50 nuclear atoms, a substituted or unsubstituted arylthio group having 5 to 50 nuclear atoms, a substituted or unsubstituted alkoxy carbonyl group having 1 to 50 carbon atoms, a carboxyl group, a halogen atom, a cyano group, a nitro group, or a hydroxyl group, provided that no symmetrical group binds to each of 1-position and 6-position of central pyrene;

formula (IX):



(IX)

wherein:

Ar¹¹ and Ar¹² each independently represent a substituted or unsubstituted aryl group having 6 to 50 nuclear carbon atoms;

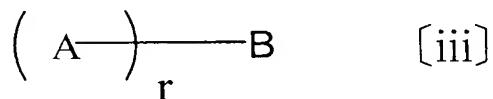
X⁶ and X⁷ each independently represent a substituted or unsubstituted aryl group having 6 to 50 nuclear carbon atoms, a substituted or unsubstituted aromatic heterocyclic group having 5 to 50 nuclear atoms, a substituted or unsubstituted alkyl group having 1 to 50 carbon atoms, a substituted or unsubstituted alkoxy group having 1 to 50

carbon atoms, a substituted or unsubstituted aralkyl group having 6 to 50 carbon atoms, a substituted or unsubstituted aryloxy group having 5 to 50 nuclear atoms, a substituted or unsubstituted arylthio group having 5 to 50 nuclear atoms, a substituted or unsubstituted alkoxy carbonyl group having 1 to 50 carbon atoms, a carboxyl group, a halogen atom, a cyano group, a nitro group, or a hydroxyl group;

L represents a substituted or unsubstituted arylene group having 6 to 50 nuclear carbon atoms, or a substituted or unsubstituted divalent aromatic heterocyclic group having 3 to 50 nuclear atoms; and

i and j each represent an integer of 0 to 8, and n³ and n⁴ each represent an integer of 1 to 3; and

when the compounds of formulae (I) to (VI) are bluish-color host materials, a bluish-color dopant represented by the following formula (iii) is used:



wherein:

A is a substituted or unsubstituted alkyl or alkoxy group having from 1 to 16 carbon atoms, a substituted or unsubstituted aryl group having from 6 to 30 carbon atoms, a substituted or unsubstituted alkylamino group having from 6 to 30 carbon atoms, or a substituted or unsubstituted arylamino group having from 6 to 30 carbon atoms;

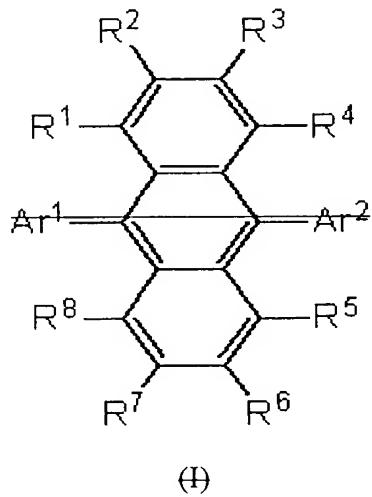
B is a fused aromatic ring residue having from 10 to 40 carbon atoms; and

r is an integer of 1 to 4.

Claim 2 (Previously Presented): The white color organic electroluminescence device according to claim 1, wherein the light emitting layer consists of the bluish color light emitting layer and the yellow-to-reddish color light emitting layer.

Claim 3 (Previously Presented): The white color organic electroluminescence device according to claim 1, wherein the bluish color light emitting layer comprises a bluish color host material and a bluish color dopant, and the bluish color host material comprises an asymmetric compound comprising a condensed ring.

Claim 4 (Currently Amended): The white color organic electroluminescence device according to claim 1, wherein the asymmetric compound comprising ~~a~~the condensed ring comprises the compound represented by the formula (I):



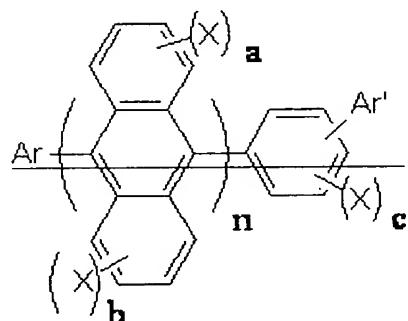
(I)

—wherein Ar¹ and Ar² each independently represent a substituted or unsubstituted aryl group having 6 to 50 nuclear carbon atoms, provided that Ar¹ and Ar² do not have the same structure; and

—R¹ to R⁸ each independently represent a hydrogen atom, a substituted or unsubstituted aryl group having 6 to 50 nuclear carbon atoms, a substituted or unsubstituted aromatic heterocyclic group having 5 to 50 nuclear atoms, a substituted or unsubstituted alkyl group having 1 to 50 carbon atoms, a substituted or unsubstituted alkoxy group having 1 to 50 carbon atoms, a substituted or unsubstituted aralkyl group having 6 to 50 carbon atoms, a substituted or unsubstituted aryloxy group having 5 to 50 nuclear atoms, a substituted or

~~unsubstituted arylthio group having 5 to 50 nuclear atoms, a substituted or unsubstituted alkoxycarbonyl group having 1 to 50 carbon atoms, a carboxyl group, a halogen atom, a cyano group, a nitro group, or a hydroxyl group.~~

Claim 5 (Currently Amended): The white color organic electroluminescence device according to claim 1, wherein the asymmetric compound comprising ~~a~~the condensed ring comprises any one of the compound compounds represented by any one of the formulae (II) to (IV):



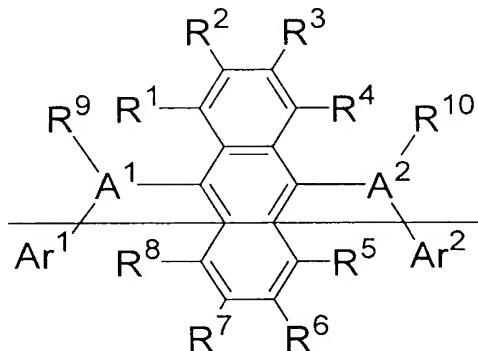
—~~wherein Ar represents a substituted or unsubstituted fused aromatic ring residue having 10 to 50 nuclear carbon atoms;~~

—~~Ar' represents a substituted or unsubstituted aryl group having 6 to 50 nuclear carbon atoms;~~

—~~X represents a substituted or unsubstituted aryl group having 6 to 50 nuclear carbon atoms, a substituted or unsubstituted aromatic heterocyclic group having 5 to 50 nuclear atoms, a substituted or unsubstituted alkyl group having 1 to 50 carbon atoms, a substituted or unsubstituted alkoxy group having 1 to 50 carbon atoms, a substituted or unsubstituted aryloxy group having 5 to 50 nuclear atoms, a substituted or unsubstituted arylthio group having 5 to 50 nuclear atoms, a substituted or unsubstituted alkoxycarbonyl group having 1 to 50 carbon atoms,~~

atoms, a carboxyl group, a halogen atom, a cyano group, a nitro group, or a hydroxyl group; and

— a, b, and c each represent an integer of 0 to 4, and n represents an integer of 1 to 3;

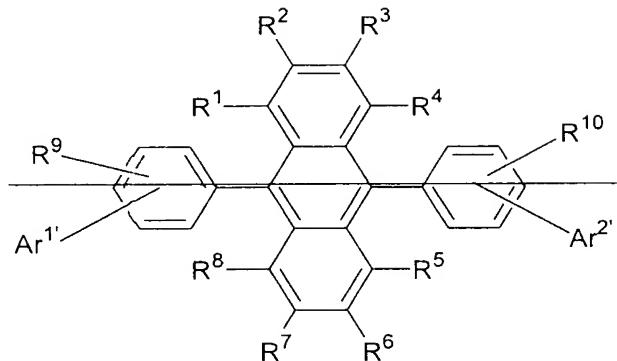


(III)

— wherein A¹ and A² each independently represent a substituted or unsubstituted fused aromatic ring residue having 10 to 20 nuclear carbon atoms;

— Ar¹ and Ar² each independently represent a hydrogen atom, or a substituted or unsubstituted aryl group having 6 to 50 nuclear carbon atoms; and

— R¹ to R¹⁰ each independently represent a hydrogen atom, a substituted or unsubstituted aryl group having 6 to 50 nuclear carbon atoms, a substituted or unsubstituted aromatic heterocyclic group having 5 to 50 nuclear atoms, a substituted or unsubstituted alkyl group having 1 to 50 carbon atoms, a substituted or unsubstituted alkoxy group having 1 to 50 carbon atoms, a substituted or unsubstituted aralkyl group having 6 to 50 carbon atoms, a substituted or unsubstituted aryloxy group having 5 to 50 nuclear atoms, a substituted or unsubstituted arylthio group having 5 to 50 nuclear atoms, a substituted or unsubstituted alkoxycarbonyl group having 1 to 50 carbon atoms, a carboxyl group, a halogen atom, a cyano group, a nitro group, or a hydroxyl group, provided that no symmetrical group binds to each of 9 position and 10 position of central anthracene;

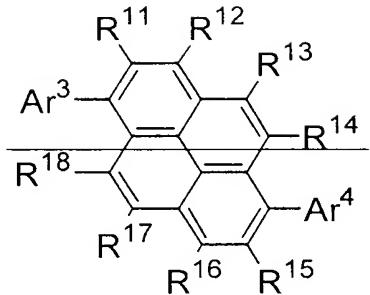


(IV)

— wherein Ar^{1'} and Ar^{2'} each independently represent a substituted or unsubstituted aryl group having 6 to 50 nuclear carbon atoms; and

— R¹ to R¹⁰ each independently represent a hydrogen atom, a substituted or unsubstituted aryl group having 6 to 50 nuclear carbon atoms, a substituted or unsubstituted aromatic heterocyclic group having 5 to 50 nuclear atoms, a substituted or unsubstituted alkyl group having 1 to 50 carbon atoms, a substituted or unsubstituted alkoxy group having 1 to 50 carbon atoms, a substituted or unsubstituted aralkyl group having 6 to 50 carbon atoms, a substituted or unsubstituted aryloxy group having 5 to 50 nuclear atoms, a substituted or unsubstituted arylthio group having 5 to 50 nuclear atoms, a substituted or unsubstituted alkoxycarbonyl group having 1 to 50 carbon atoms, a carboxyl group, a halogen atom, a cyano group, a nitro group, or a hydroxyl group, provided that no symmetrical group binds to each of 9-position and 10-position of central anthracene.

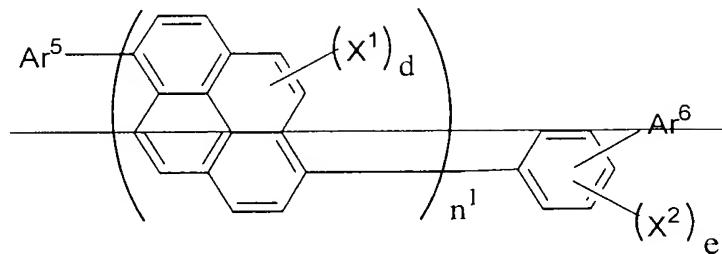
Claim 6 (Currently Amended): The white color organic electroluminescence device according to claim 1, wherein the asymmetric compound comprising a-the condensed ring comprises the compound represented by the formula (V):



— wherein Ar³ and Ar⁴ each independently represent a substituted or unsubstituted aryl group having 6 to 50 nuclear carbon atoms, provided that Ar³ and Ar⁴ do not have the same structure; and

— R¹¹ to R¹⁸ each independently represent a hydrogen atom, a substituted or unsubstituted aryl group having 6 to 50 nuclear carbon atoms, a substituted or unsubstituted aromatic heterocyclic group having 5 to 50 nuclear atoms, a substituted or unsubstituted alkyl group having 1 to 50 carbon atoms, a substituted or unsubstituted alkoxy group having 1 to 50 carbon atoms, a substituted or unsubstituted aralkyl group having 6 to 50 carbon atoms, a substituted or unsubstituted aryloxy group having 5 to 50 nuclear atoms, a substituted or unsubstituted arylthio group having 5 to 50 nuclear atoms, a substituted or unsubstituted alkoxycarbonyl group having 1 to 50 carbon atoms, a carboxyl group, a halogen atom, a cyano group, a nitro group, or a hydroxyl group.

Claim 7 (Currently Amended): The white color organic electroluminescence device according to claim 1, wherein the asymmetric compound comprising a-the condensed ring comprises any one of the compound compounds represented by any one of the formulae (VI) to (IX):

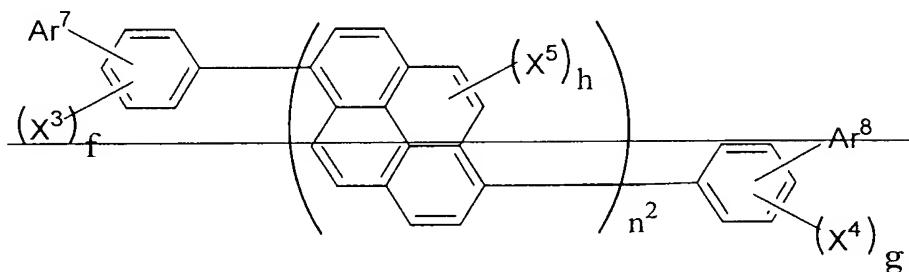


— wherein Ar^5 represents a substituted or unsubstituted fused aromatic ring residue having 10 to 50 nuclear carbon atoms;

— Ar^6 represents a substituted or unsubstituted aryl group having 6 to 50 nuclear carbon atoms;

— X^1 and X^2 each independently represent a substituted or unsubstituted aryl group having 6 to 50 nuclear carbon atoms, a substituted or unsubstituted aromatic heterocyclic group having 5 to 50 nuclear atoms, a substituted or unsubstituted alkyl group having 1 to 50 carbon atoms, a substituted or unsubstituted alkoxy group having 1 to 50 carbon atoms, a substituted or unsubstituted aralkyl group having 6 to 50 carbon atoms, a substituted or unsubstituted aryloxy group having 5 to 50 nuclear atoms, a substituted or unsubstituted arylthio group having 5 to 50 nuclear atoms, a substituted or unsubstituted alkoxycarbonyl group having 1 to 50 carbon atoms, a carboxyl group, a halogen atom, a cyano group, a nitro group, or a hydroxyl group; and

— d represents an integer of 0 to 8, e represents an integer of 0 to 4, and n^1 represents an integer of 1 to 3;

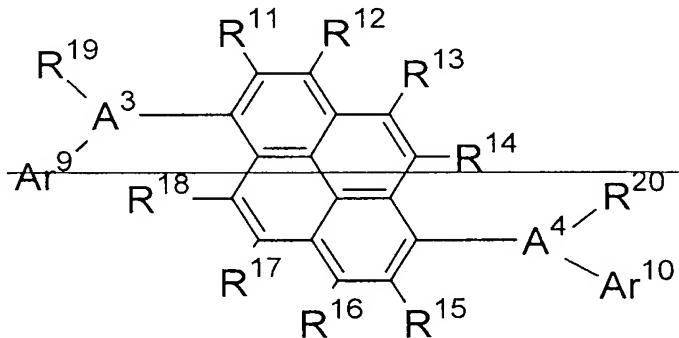


(VII)

— wherein Ar⁷ and Ar⁸ each independently represent a substituted or unsubstituted aryl group having 6 to 50 nuclear carbon atoms;

— X³, X⁴, and X⁵ each independently represent a substituted or unsubstituted aryl group having 6 to 50 nuclear carbon atoms, a substituted or unsubstituted aromatic heterocyclic group having 5 to 50 nuclear atoms, a substituted or unsubstituted alkyl group having 1 to 50 carbon atoms, a substituted or unsubstituted alkoxy group having 1 to 50 carbon atoms, a substituted or unsubstituted aralkyl group having 6 to 50 carbon atoms, a substituted or unsubstituted aryloxy group having 5 to 50 nuclear atoms, a substituted or unsubstituted arylthio group having 5 to 50 nuclear atoms, a substituted or unsubstituted alkoxycarbonyl group having 1 to 50 carbon atoms, a carboxyl group, a halogen atom, a cyano group, a nitro group, or a hydroxyl group; and

— f and g each represent an integer of 0 to 4, h represents an integer of 0 to 8, and n² represents an integer of 1 to 3, provided that no symmetrical group binds to each of 1 position and 6 position of central pyrene;



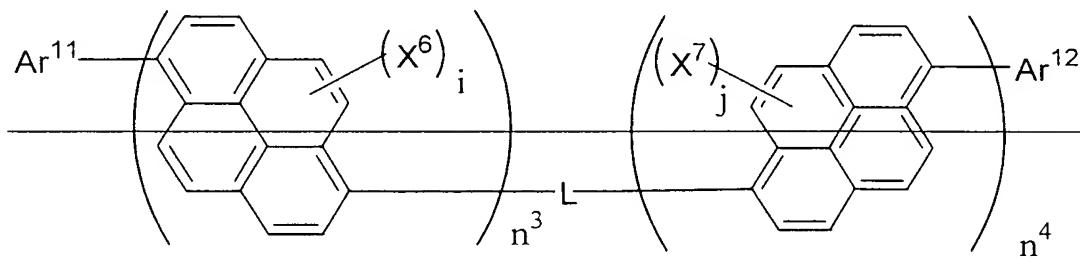
(VIII)

— wherein A³ and A⁴ each independently represent a substituted or unsubstituted fused aromatic ring residue having 10 to 20 nuclear carbon atoms;

— Ar⁹ and Ar¹⁰ each independently represent a hydrogen atom, or a substituted or unsubstituted aryl group having 6 to 50 nuclear carbon atoms; and

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~~R¹¹ to R²⁰ each independently represent a hydrogen atom, a substituted or unsubstituted aryl group having 6 to 50 nuclear carbon atoms, a substituted or unsubstituted aromatic heterocyclic group having 5 to 50 nuclear atoms, a substituted or unsubstituted alkyl group having 1 to 50 carbon atoms, a substituted or unsubstituted alkoxy group having 1 to 50 carbon atoms, a substituted or unsubstituted aralkyl group having 6 to 50 carbon atoms, a substituted or unsubstituted aryloxy group having 5 to 50 nuclear atoms, a substituted or unsubstituted arylthio group having 5 to 50 nuclear atoms, a substituted or unsubstituted alkoxycarbonyl group having 1 to 50 carbon atoms, a carboxyl group, a halogen atom, a cyano group, a nitro group, or a hydroxyl group, provided that no symmetrical group binds to each of 1 position and 6 position of central pyrene;~~



(IX)

~~wherein Ar¹¹ and Ar¹² each independently represent a substituted or unsubstituted aryl group having 6 to 50 nuclear carbon atoms;~~

~~X⁶ and X⁷ each independently represent a substituted or unsubstituted aryl group having 6 to 50 nuclear carbon atoms, a substituted or unsubstituted aromatic heterocyclic group having 5 to 50 nuclear atoms, a substituted or unsubstituted alkyl group having 1 to 50 carbon atoms, a substituted or unsubstituted alkoxy group having 1 to 50 carbon atoms, a substituted or unsubstituted aralkyl group having 6 to 50 carbon atoms, a substituted or unsubstituted aryloxy group having 5 to 50 nuclear atoms, a substituted or unsubstituted arylthio group having 5 to 50 nuclear atoms, a substituted or unsubstituted alkoxycarbonyl~~

~~group having 1 to 50 carbon atoms, a carboxyl group, a halogen atom, a cyano group, a nitro group, or a hydroxyl group;~~

— ~~L represents a substituted or unsubstituted arylene group having 6 to 50 nuclear carbon atoms, or a substituted or unsubstituted divalent aromatic heterocyclic group having 3 to 50 nuclear atoms; and~~

— ~~i and j each represent an integer of 0 to 8, and n³ and n⁴ each represent an integer of 1 to 3.~~

Claim 8 (Previously Presented): The white color organic electroluminescence device according to claim 3, wherein the bluish color dopant comprises at least one compound selected from the group consisting of a styrylamine, an amine-substituted styryl compound, a compound comprising an amine-substituted fused aromatic ring, a compound comprising a fused aromatic ring, and combinations thereof.

Claim 9 (Previously Presented): The white color organic electroluminescence device according to claim 1, comprising the anode, the bluish color light emitting layer, the yellow-to-reddish color light emitting layer, and the cathode in this order, wherein the yellow-to-reddish color light emitting layer comprises a same host material as that of the bluish color light emitting layer and a yellow-to-reddish color dopant.

Claim 10 (Previously Presented): The white color organic electroluminescence device according to claim 9, wherein the yellow-to-reddish color dopant comprises a compound having multiple fluoranthene skeletons.

Claim 11 (Previously Presented): The white color organic electroluminescence device according to claim 9, wherein the yellow-to-reddish color dopant comprises a compound having a fluorescent peak wavelength of 540 nm to 700 nm.

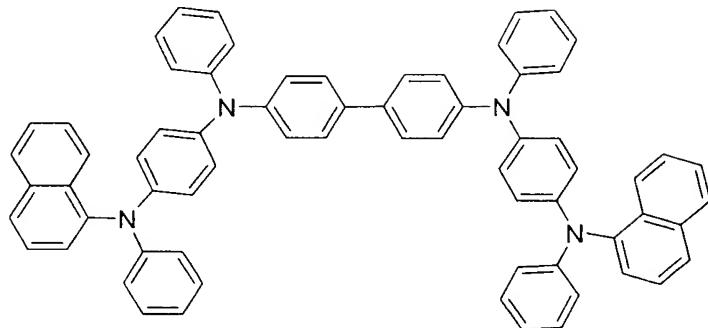
Claim 12 (Previously Presented): The white color organic electroluminescence device according to claim 1, wherein each of the bluish color light emitting layer and the yellow-to-reddish color light emitting layer has a thickness of 5 nm or more.

Claim 13 (Previously Presented): The white color organic electroluminescence device according to claim 8, wherein the bluish color dopant comprises at least one compound selected from the group consisting of a styrylamine, an amine-substituted styryl compound, a compound comprising an amine-substituted fused aromatic ring, and combinations thereof.

Claim 14 (Previously Presented): The white color organic electroluminescence device according to claim 8, wherein the bluish color dopant comprises at least one compound selected from the group consisting of a styrylamine, an amine-substituted styryl compound, and combinations thereof.

Claim 15 (Previously Presented): The white color organic electroluminescence device according to claim 1, further comprising a hole injecting layer.

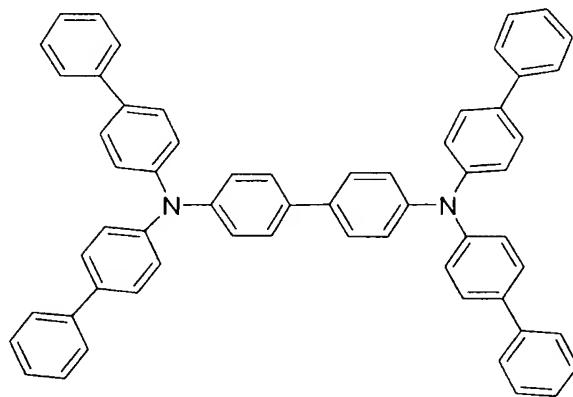
Claim 16 (Previously Presented): The white color organic electroluminescence device according to claim 15, wherein the hole injecting layer comprises a compound of formula (X):



(X).

Claim 17 (Previously Presented): The white color organic electroluminescence device according to claim 15, further comprising a hole transporting layer.

Claim 18 (Previously Presented): The white color organic electroluminescence device according to claim 17, wherein the hole transporting layer comprises a compound of formula (XI):



(XI).

Claim 19 (Previously Presented): The white color organic electroluminescence device according to claim 1, further comprising an alq film.

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Claim 20 (Previously Presented): The white color organic electroluminescence device according to claim 19, wherein the alq film comprises tris (8-quinolinol)aluminum.